

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: Mikihide NAKAMARU et al.  
Title: REACTOR CORE AND METHOD  
FOR OPERATING NUCLEAR  
REACTOR  
Appl. No.: Unknown  
Filing Date: October 17, 2001  
Examiner: Unknown  
Art Unit: Unknown

**UTILITY PATENT APPLICATION**  
**TRANSMITTAL**

Commissioner for Patents  
Box PATENT APPLICATION  
Washington, D.C. 20231

Sir:

Transmitted herewith for filing under 37 C.F.R. § 1.53(b) is the nonprovisional utility patent application of:

Mikihide NAKAMARU  
Hideaki HEKI  
Takehiko SAITO  
Kouji HIRAIWA  
Tadashi NARABAYASHI  
Satoru OOMIZU  
Tsuyoshi SHIMODA  
Kenji ARAI  
Shinichi MOROOKA  
Seijiro SUZUKI

Enclosed are:

- [ X ] Specification, Claims, and Abstract (30 pages).
- [ X ] Formal drawings (3 sheets, Figures 1-3).
- [ X ] Unexecuted Declaration and Power of Attorney (5 pages).
- [ X ] Preliminary Amendment.

The filing fee is calculated below:

|   | Claims<br>as Filed | Included in<br>Basic Fee | Extra<br>Claims | Rate              | Fee<br>Totals |
|---|--------------------|--------------------------|-----------------|-------------------|---------------|
| Basic Fee   |                    |                          |                 | \$740.00          | \$740.00      |
| Total Claims:   | 14                 | - 20                     | = 0             | x \$18.00         | = \$0.00      |
| Independents:   | 2                  | - 3                      | = 0             | x \$84.00         | = \$0.00      |
| If any Multiple Dependent Claim(s) present:   |                    |                          | +               | \$280.00          | = \$0.00      |
| Surcharge under 37 CFR 1.16(e) for late filing of Executed Declaration and late payment of filing fee |                    |                          | +               | \$130.00          | = \$130.00    |
|   |                    |                          |                 | SUBTOTAL:         | = \$870.00    |
| [ ] Small Entity Fees Apply (subtract ½ of above):  |                    |                          |                 |                   | = \$0.00      |
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- [ ] A check in the amount of \$0.00 to cover the filing fee is enclosed.
- [ X ] The required filing fees are not enclosed but will be submitted in response to the Notice to File Missing Parts of Application.
- [ ] The Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 C.F.R. §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 19-0741. Should no proper payment be enclosed herewith, as by a check being in the wrong amount, unsigned, post-dated, otherwise improper or informal or even entirely missing, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 19-0741.

Please direct all correspondence to the undersigned attorney or agent at the address indicated below.

Respectfully submitted,

By  34371

Richard L. Schwaab  
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Date: October 17, 2001

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Title: REACTOR CORE AND METHOD FOR OPERATING NUCLEAR REACTOR  
Inventors: Mikihide NAKAMARU et al. Dkt. No. 086531-0130  
Appl. No.: Unassigned RLS

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- Transmittal of Patent Application (2 pgs.);
- Patent Application Specification (30 pgs.);
- Formal Drawings (3 sheets);
- Unexecuted Declaration and Power of Attorney (5 pgs.);
- Preliminary Amendment (2 pgs.).

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Inventors: Mikihide NAKAMARU et al. Dkt. No. 086531-0130  
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